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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/791,565	03/02/2004	Chuen Y. Yeh	1094-37	3097
28349 7550 04/16/2008 DILWORTH & BARRESE, LLP 333 EARLE OVINGTON BLVD.			EXAMINER	
			WOOD, ELIZABETH D	
SUITE 702 UNIONDALE, NY 11553			ART UNIT	PAPER NUMBER
	,		1793	
			MAIL DATE	DELIVERY MODE
			04/16/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	Applicant(s)		
10/791,565	YEH ET AL.			
Examiner	Art Unit			
Elizabeth D. Wood	1793			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS.

- WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed
- after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any

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Status					
1)🛛	Responsive to communication(s) filed on 09 January 2008.				
2a)□	This action is FINAL . 2b) ☐ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.				
Disposit	ion of Claims				

4) Claim(s) 1-7 and 9-11 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-7 and 9-11 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers

9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage
 - application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Timformation Disclosure Statement(s) (PTO/G5/08) Paper No(s)/Mail Date _

4) Interview Summary (PTO-413)

Paper No(s)/Mail Date. 5) Notice of Informal Patert Application 6) Other:

Page 2

Application/Control Number: 10/791,565

Art Unit: 1793

Specification

The examiner has not checked the specification to the extent necessary to determine the presence of **all** possible minor errors (grammatical, typographical and idiomatic). Cooperation of the applicant(s) is requested in correcting any errors of which applicant(s) may become aware of in the specification, in the claims and in any future amendment(s) that applicant(s) may file.

Applicant(s) is also requested to complete the status of any copending applications referred to in the specification by their Attorney Docket Number or Application Serial Number, if any.

The status of the parent application(s) and/or any other application(s) crossreferenced to this application, if **any**, should be updated in a timely manner.

Election/Restriction

The cancellation of non-elected claims 12-23 is hereby acknowledged.

Oath/Declaration

The oath or declaration is defective. A new oath or declaration in compliance with 37 CFR 1.67(a) identifying this application by application number and filing date is required. See MPEP §§ 602.01 and 602.02.

The oath or declaration is defective because:

Non-initialed and/or non-dated alterations have been made to the oath or declaration. See 37 CFR 1.52(c).

ee 37 CFR 1.52(c).

Claim Rejections - 35 USC § 103

Art Unit: 1793

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-7 and 9-11 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 5,780,701 to Kaska et al. in view of US 6,358,486 to Shan et al, and further in view of either the Abramson et al. article or US 2001/0053832 to Watanabe.

Art Unit: 1793

The instantly claimed invention is directed to a catalyst composition comprising an organometallic complex material supported on an inorganic oxide support material by means of a bridging group.

The Kaska et al. document discloses catalytic organometallic materials that read on the organometallic pincer complex materials claimed in the instant application. The difference between the Kaska et al. disclosure and the instantly claimed invention is the failure to teach a support material and bonding of the catalyst to a support material with a bridging group.

Shan et al. are relied on for the disclosure of inorganic support materials containing mesoporosity, substantially the same support material as claimed in the instant application. It should be noted that Shan specifically states that "it is also possible to attach (graft) functional components" onto the material.

Abramson et al and Watanabe are relied on for the teaching that it notoriously well-known in the catalyst art to employ bridging groups as a means to heterogenize catalytic materials.

Accordingly, the examiner takes the position that it would have been obvious to take the known homogenous catalyst of Kaska et al. and bind it to the support material of Shan with a bridging group as taught by Abramson and Watanabe to arrive at the instantly claimed invention. The skilled artisan would have been motivated by the obvious benefits associated with the use of support materials, for example increased surface area for catalysis due to the porosity of the support material and ease of recovery and reuse of the catalyst. See particularly columns 3-7 of Shan et al.

Art Unit: 1793

Response to Arguments

Applicant's arguments with respect to claims 1-11 have been considered but are moot in view of the new ground(s) of rejection.

Moreover, it should be noted that these arguments are not convincing because the artisan practicing in this field of technology would have been motivated to make the hereinabove combination because of the advantages known to those skilled in the area of catalysis. The benefits argued by applicant in the response filed January 9, 2008 are not evidence of unexpected improvements, they are in fact reasons why the skilled artisan has, for many years, attempted to heterogenize a variety of homogeneous catalysts. The addition of a known catalyst to a known support with a known bridging means would result in expected and predictable benefits and such modification would therefore have been obvious to the skilled artisan at the time the invention was made.

Conclusion

Applicants are advised that any evidence to be provided under 37 CFR 1.131 or 1.132 and any amendments to the claims and specification should be submitted prior to final rejection to be considered timely. It is anticipated that the next office action will be a final rejection.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Elizabeth D. Wood whose telephone number is 571-272-1377. The examiner can normally be reached on M-F, 5:30-2:00.

Art Unit: 1793

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jerry Lorengo can be reached on 571-272-1233. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth D. Wood/ Primary Examiner, Art Unit 1793

/E. D. W./ Primary Examiner, Art Unit 1793